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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/497,618	02/03/2000	Rainald Sander	POo,0184	7717		
71	590 06/11/2003					
Schiff Hardin & Waite Patent Department 7100 Sears Tower			EXAMINER			
			FARAHANI, DANA			
Chicago, IL 60606-6473			ART UNIT	PAPER NUMBER		
			2814			
			DATE MAIL ED: 06/11/2003	DATE MAIL ED: 06/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	tion No.	Applicant(s)				
Office Action Summary			318	SANDER, RAINAL				
			er	Art Unit				
		Dana Fa	arahani	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
THE MAILING DATI - Extensions of time may be after SIX (6) MONTHS from the period for reply spectars of the period for reply is spectars.	pecified above, the maximum statu	CATION. f 37 CFR 1.136(a). In no e nication. days, a reply within the strutory period will apply and	event, however, may a atutory minimum of th will expire SIX (6) MO	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this comm	nunication.			
 Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 								
Status	, , , , , , , , , , , , , , , , , , ,							
1) Responsive	to communication(s) file	d on <u>31 March 200</u>	<u>)3</u> .					
2a) This action is	FINAL. 2	b)⊠ This action i	s non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
	6)☑ Claim(s) <u>1-9</u> is/are rejected.							
	_ is/are objected to.							
8) Claim(s) Application Papers	_ are subject to restricti	ion and/or election	requirement.					
9) The specificati	on is objected to by the	Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)⊡ S	ome * c) None of:							
_	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
					pplication).			
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 								
15) ACKNOWledgme	ent is made of a ciaim to	л аотневис рионцу	unuer 33 U.S.C	7. 33 120 and/01 121.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5) Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 4-6, 8, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Furuhata (U.S. Patent 5,521,421).

Furuhata discloses in figures 1a-1b, a temperature-protected semiconductor switch, comprising a semiconductor body of a first conductivity type, N; a semiconductor switch element, 11 and 12, formed of a plurality of cells connected in parallel and including an integrated reverse diode (see column 3, lines 63-64); a temperature sensor (the bipolar transistor included inherently in the power MOSFET block 11, and the base of the transistor, that is the transistor comprising regions 14b, 16b, and 13, is leading out of the substrate through 16b) which generates a first signal in the occurrence of an excess temperature; and a charge carrier detector (the PN junction of the region 14a and 13).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furuhata as applied to claims 1, 2, 4-6, 8 and 9 above, and further in view of Roth (this reference is cited in the previous Office Actions, also).

Roth teaches at page 51 an exclusive-or logic gate. It would have been obvious to one of ordinary skills in the art at the time the invention was made to use an exclusive-or logic gate in Furuhata to get an output signal corresponding to the temperature and charge carrier input signals. It is well known in the art that an exclusive-or logic gate outputs 1,or H, when one of its inputs is 0,or L, and the other input is 1,or H.

Response to Arguments

5. In view of the arguments filed on 3/31/03 in an appeal brief by the applicant, PROSECUTION IS HEREBY REOPENED. See below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

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Conclusion

6. This action is Non-Final. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (703)305-1914. The examiner can normally be reached on M-F 9:00AM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M Fahmy can be reached on (703)308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9318 for regular communications and (703)872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

D. Farahani June 5, 2003

LONGPHAM

PRIMARY EXAMINER